

Spectrophotometrical Determination of Acid and
Alkaline Phosphatase With O-Carboxy-Phenyl-Phosphat,
by Hans Brandenberger, 8 pp.
GERMAN, per, Helvetica Chimica Acta, Vol XXXVIII,
No 162, 1955, pp 1347-1351.
Navy Tr 3771/NMS 861

Sci - Biol & Med
Apr 64

255,106

Studies on Drugs in the Heterocyclic Series.
by P. Schmidt and J. Bruy.

GERMAN, Ger. Heterocyclic Comp., Vol. XLIV
1955, pp 1560-1568

PMID-502

Sci

Aug 58

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Electrolysis of Molten Lithium Chloride, by G.
Parissakis, W. D. Treadwell, 8 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XXXVIII,
1955, pp 1749-1756.

SLA 59-10438

Sci - Chem
Sep 59
Vol 2, No 1

97,286

Information on the Carbon Ring Concerning
the Reaction of Cyclododecane with
Performic Acid, by V. Prelog, Margrit
Speck, Op.
SWISS, per, Helvetica Chimica Acta,
Vol 38, No 7, 1955, pp 1786-1794.
SLA TT-65-10240

333, 848

Sci
Mag 67

Schwarzenbach, G. and Schneider, W.
COMPLEXONS. XXVII. DIELECTRIC ACTION OF HY-
DRATE ENVELOPES OF THE HYDROGEN ION AND
VARIOUS METAL CATIONS IN AQUEOUS SOLUTION,
tr. by Bertha P. Klenova. 23 Jan 56, 9p. 6 refs.
[No.] 3510.
Order from OTS or SLA \$1.10

60-23459

Trans. of Helv[etica] Chim[ica] Acta (Switzerland)
1955, v. 38, p. 1931-1940.

DESCRIPTORS: *Complex compounds, Dielectric
properties, Chemical bonds, Ions, Amines, Acetic
acids.

See also 59-15666, 60-14044.

(Chemistry--Organic, TT, v. 6, no. 5)

60-23459

- I. Title: Complexones
- I. Schwarzenbach, G.
- II. Schneider, W.
- III. TVA-3510
- IV. Tennessee Valley Authority,
Wilson Dam, Ala.
- V. Title: Dielectric...
- VI. Title: Complexones

180422

Office of Technical Services

4-27-61

On the Determination of the Catechol Amines and the
~~En~~ Pyrocatechins in Human Urine, by N. Goldstein,
I. Abelin, 16 pp.

GERMAN, per, Helv Chim Acta, Vol XXXIX, 1956,
pp 158-167.

NIH 9-3

Sci - Chem
Sep 59

97,384

The Formacidins A, B, C and H.
Metabolic Products of Actinomycetes. 4th
Report, by R. Grobas, 26 pp.

GERMAN, per, Helv Chim Acta, Vol XXXIX, 1956,
pp 304-317.

SLA 57-3174

Sci

Aug 58

72,897

Hardegger, E. and Nikles, E.
WILT SUBSTANCES AND ANTIBIOTICS INVESTI-
GATIONS IN THE PYRIDIN-SERIES; A NEW PAS-
SAGE WAY TO FUSARIC ACID (Weilstoffe und
Antibiotika Untersuchungen in der Pyridin-Reihe;
Ein Neuer weg zur Fusarinsäure). [1961] [19]p. 25 refs.
Order from SLA mi\$1.60 61-10535

Trans. of Helvetica Chimica Acta (Switzerland) 1956,
v. 39, no. 2 [p. 505-513].

DESCRIPTORS: *Fusaric acid, Acids, Synthesis,
Pyridines, *Antibiotics, Pyridine derivatives.

Alkalization of β -picolin (I) with alkylbromide leads
with a good yield to the 3-n-alkyl-pyridine (propyl up
to hexyl). The aminization of 3-n-butyl-pyridine (V)
gives predominantly 2-amino 3-n-butyl-pyridine (VI)
and a little 2-amino-5-n-butyl-pyridine (II). From
(Chemistry--Organic, TT, v. 7, no. 8) (over)

61-10535

I. Hardegger, E.
II. Nikles, E.

Office of Technical Services

Metal Complexes With Polyamines. II: With Cis-and
Trans-1,2-diaminocyclohexane. by G. Schwarzenbach,
R. Baur, 8 pp.

GERMAN, per, Helv. Chim. Acta, Vol XXXIX, No. 3, 1956,
pp 722-728.

SLA Tr 57-1790

Sci

Jun 58

65,923

Catalytic and Electrical Properties of
Semiconductors. II. Contribution to the
Study of Semi-Conductors, by Jean Decrue,
17pp.

DUTCH, per, Helvetica Chimica Acta, Vol 39,
No 3, 1956, pp 812-827.

CFSTI TT-64-20127.

322,685

Sci - Physics

Apr 67

On the Isotopic Effect During the Oxidation of
Formate with Permanganate, by H. Aebi.

GERMAN, per, Relv Chim Acta, Vol XXXIX, 1956,
pp 944-950.

INSDOC-T 2237

Sci
Apr 59

84,442

Ion Equilibria on Cation Exchanges of Different Exchange Capacities, by K. Hutehneker, et al.

GERMAN, per, Helvetica Chimica Acta,
Vol XXXIX, No 4, 1956, pp 1038-1045.

CSIRO

Sci - Chem
Jun 62

199,603

Freezing Point Depression Due to Anomalous Crystal
Habit as Well as by Limitation of the Crystal Size,
by Werner Kuhn, 24 pp.
GERMAN, per, Helvetica Chimica Acta, Vol XXXIX,
1956, pp 1071-1086. 922 3544
AEC-ORNL-Tr-72

Sci-Chem
Sep 64

265,846

Spontaneous Resolution of 2,4-Dioxo-3, 3-diethy-5-methylpiperidine into ~~Optz~~ Optical Antipodes, by K. Vogler^R M. Kofler, 8 pp.

BERMAN, per, Helv Chim Acta, Vol ~~XXX~~ XXXIX, 1956, pp 1387-1394.

CIA/FDD XI-247

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chemistry

Feb 1957 CTS/dex

IAC INTERNAL USE ONLY

44, 190

Haber, R. G., Nikuni, Z. and others.
THE STRUCTURE OF ALPHA AND BETA SORI-
GENINE. [1960] 13p. (2 figs. 2 tables 5 diagrs.
omitted) 34 refs.
Order from SLA ml\$2.40, ph\$3.30 61-10307

Trans. of Helv[etica] Chim[ica] Acta (Switzerland)
1956, v. 39 [no. 6] p. 1654-1663.

148,500

(Chemistry--Organic, TT, v. 5, no. 7)

61-10307

1. Cyclic compounds--
Molecular structure
2. Title: Sorigenine
- I. Haber, R. G.
- II. Nikuni, Z.

Office of Technical Services

(Chemistry--Organic, 11, v. 5, no. 1)

Bonnet, J. and Neukomm, S.
CHEMICAL COMPOSITION OF TOBACCO SMOKE.

II. THE ALKALINE FRACTION. [1962] 11p.

Order from K-H \$13.75

K-H 6124-a

Trans. of Helv[etica] Chim[ica] Acta (Switzerland) 1957,
v. 40 [no. 1] p. 113-118.

DESCRIPTORS: Chemical analysis, *Tobacco, *Smokes,
Fractionization, Alkyl radicals.

(Chemistry--Analytical, TT, v. 8, no. 5)

62-17832

I. Bonnet, J.

II. Neukomm, S.

III. Title: Alkaline ...

IV. K-H-6124-a

V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Rennet and Its Effect on Milk Casein. XI. The Amino end Groups of α -Casein Before and After Renneting, by H. Wissman, Hs. Nitschmann.

GERMAN, per, Helvetica Chim Acta, Vol XL, 1957, pp 356-363.

NRC/C-3855

Sci
Jan 63

Bonnet, J. and Neukomm, S.
CHEMICAL COMPOSITION OF TOBACCO SMOKE.
III. THE ACID FRACTION AND URETHAN. [1962]
8p.

Order from K-H \$10.00

K-H 6456-a

Trans. of Helvetica Chimica Acta (Switzerland) 1957,
v. 40, no. 3, p. 717-721.

DESCRIPTORS: *Tobacco, *Smokes, Chemical analysis,
Acids, *Urethanes.

(Chemistry--Analytical, TT, v. 8, no. 5)

62-17834

- I. Bonnet, J.
- II. Neukomm, S.
- III. K-H-6456-a
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Wilt Toxins and Antibiotics. 20. Induced Protective Substances in Orchids, by A. Boller, et al.

GERMAN, per, Helvetica Chimica Acta, Vol XL,
No 4, 1957, pp 1062-1066.

CSIRO Tr 4378

Sci - Biol

156,532

Jun 61

Recording of Refractive Index Gradient Curves
(dn/x -Diagrams), by Means of a Novel Phase
Plate, by E. Wiedemann.

GERMAN, per, Helvetica Chimica Acta,
Vol XLIX, No 7, 1957, pp 2074-2078.

CSIRO 3873

Sci - Phys
Aug 62

207, 222

Focusing Ion Exchange. IV. Theory of the Focusing
Effect, by ~~Wolfgang~~ Ernst Schumacher, 35 pp.

GERMAN, per, Helv Chim Acta, Vol L, 1957,
pp 2322-2340.

AEC UCRL-Trans-627(L)

Sci - Chem
May 61

150,382

Focussing Ion Exchange I. Principle and Simple
Theory, by Ernst Schumacher,

GERMAN, per, Helv Chim Acta, Vol XL, 1957,
pp 221-228.

ABC UCRL-Trans-613(L)

Sci - Phys
May 61

150,884

Focusing Ion Exchange. II. Rapid Qualitative
Analysis of Cations, by Ernst Schumacher, Hans
Jakob Streiff, 19 pp.

GERMAN, per, Helv Chim Acta, Vol XL, 1957,
pp 228-233.

AEC UCRL-Trans-615(L)

Sci - Chem
Sci 61

149, 021

Focusing Ion Exchange. II. Rapid Separation
of Radioactive Indicators, by Ernst Schumacher,
~~Ernst~~ Hans Jakob Streiff, 7 pp.

GERMAN, per, Helv Chim Acta, Vol XL, 1957,
pp 234-236.

AEC UCRL-Trans-616(L)

Sci - Chem
Apr 61

149,022

4, 7-Phenanthroline Quinone Derivatives
With Amebicidal Action, by P. Schmidt,
J. Druey, 6 pp.

EGERMAN, per, Helvetica Chim Acta,
Vol XL, No 2, 1957, pp 350-355.

SLA 60-18034

114 7-38-60

199, 674

Sci
Jun 62

Vol 4, No 12

Wiseman, H. and Nitschmann, Ha.
RENNET AND ITS EFFECT ON MILK CASEIN.
XI. THE AMINO END GROUPS OF α -CASEIN BEFORE AND AFTER RENNETING (Das Lab und Sein Wirkung auf das Casein der Milch. XI. Die Amino-seitigen Endgruppen des α -Caseins vor und nach der Labung) tr. by D. A. Sinclair. 1961, 13p. 21 refs.
NRCC Technical Trans. 987.
Order from NRCC \$1.00 NRCC C-3855

Trans. of Helvetica Chimica Acta (Switzerland) 1957, v. 40, p. 356-363.

DESCRIPTORS: Milk, *Rennet, Enzymes, Casein, Lysines, Nucleic acids, Hydrolases, *Arginine, *Nitrophenols, Amino acids.

(Biological Sciences--Biochemistry, TT, v. 7, no. 10)

62-12450

- I. Wiseman, H.
- II. Nitschmann, H.
- III. Title: Amino ...
- IV. NRCC TT-987
- V. NRCC C-3855
- VI. National Research Council of Canada

Office of Technical Services

Experiments on Biological Degradation III(1-2),
Synthesis of Some Glutaric Acid Amides(3), by
K. Hoffmann, J. Kerble and H. J. Schmid, 13 pp.

GERMAN, per, Helv Chim Acta, Vol XL, No 47, 1957,
pp 387-394.

SIA 57-2980

Sci

Aug 58

71,093

Mixed Anhydrides from Carbobenzoxyamino Acids
and Chloroformic Acid for the Esterification
of Aromatic and Aliphatic Hydroxyl Compounds,
by M. Brenner, J. P. Zimmermann.

GERMAN, per, Helvetica Chimica Acta, Vol 40,
No 3, 1957, pp 604-610.

NTC-69-16122-07C

Sci-Chem

Feb 70

403,015

Synthesis of a Highly Active Hypertensin II-Amide
(L-Asparagyl-L-Arginyl-L-Valyl-L-tyrosyl-L-Isoleucyl-
L-Histidyl-L-Prolyl-L-Phenylalanine, by W. Rittel,
B. Iselin, et al, 22 pp.

GERMAN, per; Helv Chim, Acta, Vol XL, No 3, 1957,

pp 614-624.

SLA 59-10449

Sci - Med

Sep 59

Vol 2, No 1

97,236

A Flow Apparatus With Glass Electrodes (On the
Acidity Constant of True Carbonic Acid and Its
Rate of Dehydration), by Jerg Meier and G.
Schwarzenbach, 15 pp.
GERMAN, per, Helvetica Chimica Acta, Vol XL,
Fasciculus IV, No 105, 1957, pp. 907-917.
JPRS 44613

EE-Switzerland
Sci-Phys
Jul 67

328,768

A Flow Apparatus Equipped With Glass Electrodes
(ON the Acidity Constant of True Carbonic Acid
and Its Speed of Dehydration,) by Juerg Meier,
G. Schwarzenbach.

GERMAN, per, Helvetica Chimica Acta, Vol XL,
Fasciculus IV, No 105, 1957, pp 907-917.
*JRRS/DC 15233/SPECIAL

Sci-Chem
May 67

On Focussing Ion Exchange, by Ernst
Schumacher,

GERMAN, per, Helvetica Chimica Acta, Vol XL,
pp 221-228, ~~228-233~~, ~~234-236~~, ~~237-239~~, 824-843,
1572-1581, 1771-1783.

*AEC

Sci - Chem
12 Oct 60

List 44

Jaertschi, P. and Kuhn, W.
 VAPOR PRESSURE OF ISOTOMIC COMPOUNDS (IN-
 FRARED PORTION OF THE DISPERSION INTERAC-
 TION FOR THE HIGHER VOLATILITY OF THE
 HEAVY MOLECULAR SPECIES). [1960] 7p. 9 refs.
 Order from SCA m41.80, ph\$1.80 60-18052

Partial trans. (introduction and summary) of Helvetica
 Chimica Acta (Switzerland) 1957, v. 40 (no. 4)
 p. 1084-[1103].

(Chemistry--Physical, TT, v. 5, no. 4)

60-18052

1. Vapor pressure--
Measurement
2. Isotopes--Separation
3. Fractionation--Analysis
1. Jaertschi, P.
- II. Kuhn, W.

143,256

AEG DEG-Inf-Ser 157

Office of Technical Services

Synthesis of sphingosine and Its Stereoisomers,
by S. A. Grob, F. Gadiot.

CHIRAL, per, Helvetica Chimica Acta, Vol. XL,
No. 5, 1957, pp 1145-1157.

HHH 3-17-63

Sci - ~~XXXXXXXXXX~~ Chem

Jul 63

232,622

Ultra-Micro-Determination of the Total Nitro-
gen in Polypeptides, and Amino-Acids, Isolated
From Chromatograms or Electrophorograms on
Paper, by P. Baudet, E. Cherbuliez.

GERMAN, per, Helvetica Chimica Acta,
Vol XL, No 5, 1957, pp 161X2-1620.

CSIRO 4319

Sci - Chem
Apr 62

190,361

Eugster, C. H. and Karrer, P.
TARAXANTHIN AND TARACHROM AS WELL AS
OBSERVATIONS ABOUT STEREOISOMERIC TROLLI-
XANTHINS, 6, 1962, 15p.

Order from K-H \$18.75

K-H 6287-b

Trans. of Helvetica Chimica Acta (Switzerland) [1957]
v. 40, no. 6, p. 69 and 79.

DESCRIPTORS: *Stereochemistry, *Plant pigments,
Pigments, Carotenoids.

(Biological Sciences, TT, v. 7, no. 12)

62-12755

1. Title: Taraxanthin
2. Title: Tarachrom
3. Title: Trollixanthins

1. Eugster, C. H.
- II. Karrer, P.
- III. K-H-6287-b
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Drug Studies in the Heterocyclic Series.
Polymethylene-bis-synonones and polymethylene-
bis-hydrazines, by H. U. Deneniker, J. Druey.

GERMAN, per, Helvetica Chimica Acta, Vol XL,
1957, pp 918-932.

GB/2

Sci-Chem
May 63

~~119,898~~
229,899

On Focusing on Exchange. IV. Contribution
to the Theory of the Focusing Effect, by
Ernst Schumacher.

GERMAN, per, Helv. Chim Acta, Vol 40,
No 7, 1957, pp 2322-2340.
HEW NIH 10-10-65

EE-Germany

Sci/BGM

Mar 66

296,294

Meilbronner, E., Kovits, E., and Simon.
PROGRAM DIRECTED GAS CHROMATOGRAPH FOR
PREPARATIVE SEPARATION OF MIXTURES OF
ORGANIC COMBINATIONS. [1960] [14p. 4 refs.
Order from SLA \$1.60 61-10662

Trans. of Helvetica Chimica Acta (Switzerland) 1957
[v. 40, no. 7, p. 2411-2420].

DESCRIPTORS: *Chromatographic analysis,
Instrumentation, Design, *Mixtures, Separation,
Organic compounds.

A fully automatic gas chromatography column for
preparative purposes is described. The apparatus can
be programmed to carry out the following sequence of
operations: (1) feeding of a sample of pre-selected
size from a batch of mixture into the column; (2) sepa-
ration of the sample into its components; (3) feeding of
the components into their respective cooling traps
(Chemistry--Analytical, TT, v. 6, no. 9) (over)

61-10662

I. Title: Gas chromatograph
I. Meilbronner, E.
II. Kovits, E.
III. Simon

185690

Office of Technical Services

New 16 Alpha-Hydroxy Steroids From Human Urine and
From Hog Adrenals; Isolation, Constitution, and
Synthesis, by R. Meher, Ch. Meystre, A. Wettstein,
30 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XII,
No 6, 1958, pp 132-152.

SLA 60-14129

Sci

OTS, Vol III, No 8

Apr 61

145, 107

Program-Controlled Gas Chromatography for Preparative
Separation of Mixtures of Organic Compounds, Parts I
and II, by E. Zellbrunner, et al.

GERMAN, per, Helv Chim Acta, Vol XL, No 247, 1957,
pp 2410-2420; Vol XLI, No 32, 1958, pp 275-288.

ATS 265-GJ

Sci - Chem
Nov 59

100,374

Program-Controlled Gas Chromatography for Preparative
Separation of Mixtures of Organic Compounds, Parts I
and II, by E. Hailbronner, et al.

GERMAN, per, Helv Chim Acta, Vol XL, No 247, 1957,
pp 2410-2420; Vol XLI, No 32, 1958, pp 275-288.

ATS 265-GJ

Sci - Chem
Nov 59

100,374

Focusing Ion Exchange. V. Separation of Metal Ions, Particularly of Radioactive Indicators, by Proton Exchange, by E. Schumacher, E. J. Streiff, 37 pp.

GERMAN, per, Helv Chim Acta, Vol XLI, 1958, pp 824-843.

AEC UCRL-Trans-617(L)

Sci - Chem
Apr 61

149,023

Isotope Separation During Freezing of Water, and
Diffusion Constants of D and O¹⁸ in the Ice, by
W. Kuhn, M. Thierkatz, 32 pp.
GERMAN, per, Helv Chim Acta, Vol XLI, 1958,
pp 938-971.
AEC-MLM-Tr-1206

Sci-Phys
Aug 65

286,384

On the Mechanism of the Reactivation of the
Succinate-Cytochrome c Reductase by Vitamins
E and K, by F. Weber, U. Gloor, O. Wiss, 20 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XLI,
1958, pp 1038-1046.

SLA 59-15372

Sci - Med
Dec 59
Vol 2, No 4

102,836

Synthesis of Highly Active Decapeptides With
the Amino Acid Series of Val⁵ Hypertensin I,
by R. Schwyzler, B. Iselin, H. Kappeler, B.
Riniker, W. Rittel, H. Zuber, 30 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XLI,
1958, pp 1273-1286.

NIH 1-37a-60

Sci - Med

Mar 60

110,424

The Reactivation of Succinate-Cytochrome c Reductase
by Vitamin K₁, 2-Methyl-1, 4-Naphthoquinone and
Ubiquinone, by F. Weber, U. Gloor, O. Wiss, 11 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XLI,
1958, pp 1046-1052.

SLA 59-15371

Sci - Med
Dec 59
Vol 2, No 4

102,837

Synthesis of Highly Active Octapeptides With
the Presumable Amino-Acid Series of the Still
Unknown Hypertensin II From Cattle Serum (Val
5-Hypertensin II and Val 5-Hypertensin II-
asp- β -Amide), by R. Schwyzler, B. Iselin, H.
Kappeler, B. Rinkler, W. Rittel, H. Zuber,
17 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XII,
1958, pp 1287-1297.

NIH 3-50-60

Sci - Med

117,347

Gagnaux, P., Janjic, D., and Susz, B. P.
ADDITION COMPOUNDS OF LEWIS ACIDS. VIII. IN-
FRARED ABSORPTION SPECTRA OF ADDITION COM-
POUNDS OF ALUMINUM BROMIDE WITH NITRO-
METHANE AND PARA-SUBSTITUTED AROMATIC
NITRO DERIVATIVES. 9 Dec 60, 18p. 18 refs.
Order from SLA \$1.60 63-10558

Trans. of Helvetica Chimica Acta (Switzerland) 1958,
v. 41, p. 1322-1332.

DESCRIPTORS: *Complex compounds, Acids, *Spectra
(Infrared), *Aluminum compounds, *Bromides,
*Nitrogen compounds.

(Chemistry--Physical, TT, v. 9, no. 11)

63-10558

1. Title: Lewis acids
- I. Gagnaux, P.
- II. Janjic, D.
- III. Susz, B. P.
- IV. Title: Infrared...

Office of Technical Services

Focusing Ion-Exchange. VI. Apparatus for the Continuous Separation of Metal Ions (And Other Electrolytes), by Ernst Schumacher, Rene Fluher, 10 pp.

GERMAN, per, Helv Chim Acta, Vol XLI, 1958, pp 1572-1581.

AEC UCRL-Trans-609(L)

Sci - Phys
Apr 61

149,020

Isolation, Constitution and Synthesis of a New
Active Substance From Adrenals, by R. Neher,
P. Descaulles, et al, 56 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XII,
1958, pp 1667-1692.

SLA 59-17054

Sci
Jan 60
Vol 2, No 7

104,491

Ray Focusing Ion-Exchange. VII. Quantitative
Microanalysis of Heavy Metals and Rare Earths, by
Ernst Schumacher, Hans Jakob Streiff, 15 pp.

GERMAN, per, Helv Chim Acta, Vol XLI, 1958,
pp 1771-1783.

AEC UCRL-Trans-622(L)

Sci - Chem
Jul 61

157,427

Gas-Chromatographic Characterization of Organic
Compounds. Portion I. Retention Indices of
Aliphatic Halides, Alcohols, Aldehydes and
Ketones, by E. Kovats, 37 pp.

62/112
~~Swiss~~, Per Helv Chim Acta, 1958, Vol XLI, No 7,
pp 1915-1932.

SLA 59-15334

Sci
Oct 59
Vol 2, No 3

99,874

Continuous Gas Chromatography, by W. Kuhn. A.
Narten, M. Thurnkauf, 22 pp.

GERMAN, Ger, Helvetica Chimica Acta, Vol XLI,
No 7, 1958, pp . 2135-2149,

SIA 59-15335

Sci - Chem
Dec 59
Vol 2, No 4

103,804

Electromotor Behavior of Electrode Glasses.
I. Measurements on Electrode Glasses in
Aqueous Systems, by W. Simon, D. Wegmann,
13 pp.

GERMAN, per, Helv Chim Acta, Vol XLI, No 7,
1958, pp 2308-~~233~~2322.

NIE 1-27-62

186,391

Sci - Med

Mar 62

Electron Gas Model of Organic Dyes. Field Effect
as the Cause of Anomalous Intensities in Absorption
Bands, by Hans Kuhn, Walter Riber, 44 pp.

GERMANY, FOR, Helv Chim Acta, Vol XLII, 1959,
pp 363-386.

NH 7-11

Sci - Chemistry
Aug 59

SLA 59-18075

93, 125

Behavior of α -Phenyl- α -Ethyl-Glutarimide in the
Animal Body. II. Isolation and Structural
Clarification of the Metabolites of α -Phenyl- α -
Ethyl-Glutarimide, by J. Kebrle, K. Schmid, 22 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XLII,
No 2, 1959, pp 417-425.

SLA 59-15641

Sci - Chem

Dec 59

Vol 2, No 4

102,832

Active Salt H^+ Transport as a Possible (and
Probable) Individual Effect in the Urine
Concentration in the Kidney, by W. Kuhn, A.
Ranzel, 69 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XLII,
1959, pp 628-660.

NIH 1-9a-60

Sci - Med

Mar 60

119,478

Synthesis Tests in the Emetine Series, by
A. Brossi, M. Baumann, 28 pp.
GERMAN, per, Helvetica Chimica Acta, Vol XLII,
1959, pp 772-788.
Patent Office

Sci - Chem
Sept 64

267,053

Physicochemical Behavior of a Psychoanalytic, Phenyl-
Piperidyl-Acetic Acid-Methyl Ester, by R. Barnhart,
U. Buehler, H. H. Bickel, 11 pp.

GERMAN, part, Helvetica Chim Acta, Vol XLIII, No 5,
1959, pp 602-607.

SIA 59-15951

Sci
Dec 59
Vol 2, No 5

103,529

A New Method of Determining Oxygen Isotopes in
Organic Compounds, by H. Dahn, H. Moll, et al, 20 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XLII,
1959, pp 1125-X-1236.

ACSI I-8139
ID 2216558

Sci - Chem
M Apr 63

526,526

Deuel, H., Wartmann, J. and others.
ORGANIC DERIVATIVES OF SILICA GEL WITH
Si-O-C BONDS. I. [1961] 12p. 40 refs.
Order from SLA ml\$2. 40, ph\$3.30 61-10918

Trans. of Helv[etica] Chim[ica] Acta (Switzerland)
1959, v. 42 [no. 4] p. 1160-1165.

The silanol groups of a silica preparation were determined by ignition and by reaction with LiAlH_4 (244 meq. SiOH per 100g silica). Part of these groups reacted with organic reagents forming organic derivatives of silica with Si-O-C bonds. Acetyl and benzoyl derivatives of silica were prepared which were organophilic and rapidly hydrolyzable by water. Silica chlorides were prepared by treatment of silica with SOCl_2 (50 to 80 meq. SiCl per 100g silica) or with SiCl_4 (Si-O-SiCl_3 groups). Alkoxy derivatives of silica were prepared by treatment of silica chlorides with different alcohols. These derivatives were organophilic and part of them hydrophobic. The sta- (Chemistry--Organic, TT, v. 5, no. 12) (over)

61-10918

1. Silicon compounds
(Organic)--Synthesis
2. Silica gels--Chemical reactions

I. Deuel, H.
II. Wartmann, J.

148721

Office of Technical Services

Wartmann, J. and Deuel, H.

ORGANIC DERIVATIVES OF SILICA GEL WITH
SI-C BONDS, II. [1961] 11p. 38 refs.

Order from SLA m/\$2.40, ph/\$3.30 61-10917

Trans. of Helvetica Chimica Acta (Switzerland) 1959,
v. 42, p. 1166-1170.

Organic derivatives of silica were prepared by treating silica with triphenyl- and trimethylchlorosilane or with hexamethyldisilazane. The trimethylsiloxy derivatives are extremely hydrophobic. Butyl derivatives were prepared by treatment of silica chloride with butyl magnesium bromide or with butyl lithium, and phenyl derivatives were prepared with benzene in the presence of aluminum chloride or with phenyl lithium. Phenyl derivatives of silica prepared with phenyl lithium were degraded by sodium hydroxide. The toluene-soluble degradation products were fractionated on an aluminum oxide column. One degradation product was identified as $(C_6H_5SiO_{1.5})_x$. The (Chemistry--Organic, TT, v. 5, no. 12) (over)

61-10917

1. Silicon compounds
(Organic)--Synthesis
2. Silica gels--Chemical
reactions

1. Wartmann, J.
- II. Deuel, H.

148722

Office of Technical Services

Agency: CIA

Ref. No.: R-10165-D

R-10165-D

4 March 1969

Title: Charakterisierung einfach ungesättigter
Steroide durch ihr Absorptionsspektrum
im kurzwelligen Ultraviolett.

Author: Birch, A., Lotzler, G. and Reichenstein, H.

Source: Helvetica Chimica Acta 42:1400-1402,
1959

Language: German

23pp

Special instructions: Please translate and type
1 copy

62-10005

Bosshard, H. H., Mory, R. and others.
A METHOD FOR THE CATALYZED PRODUCTION OF
CHLORIDES OF CARBOXYLIC ACID AND SULFONIC
ACID WITH THIONYL CHLORIDE. [1961] 6p. (formu-
lae figs. omitted) 13 refs.
Order from SLA \$1.10

62-10005

Trans. of Helvetica Chimica Acta (Switzerland) 1959,
v. 42, p. 1653-1657.

DESCRIPTORS: *Carboxylic acids, *Sulfonic acids,
Acids, Sulfonyl compounds, *Chlorides, Production,
Catalysts, Catalysis, Formamides, Methyl radicals,
Amides, Naphthalenes.

(Chemistry--Physical, TT, v. 7, no. 9)

I. Bosshard, H. H.
II. Mory, R.

Office of Technical Services

Isolation of 24-Methylenecholesterol from Queens
and Workers of the Honeybee Apis mellifica, by O.
Schindler, M. Barbier.
GERMAN, per Helv Chim acta, No 42, 1959, pp 1998-2005
CSIRO/No 7961

Sci -

Sep 67

140,000

Macro-determination and Micro-determination of
Cobalt Traces III. Spectrophotometric Determina-
tion Using Nitroso-R-Salt (Sodium-Nitroso-1-
Naphthol-2-Disulphonate-3.6), by W. Haerdi.

GERMAN, per, Helvetica Chimica Acta,
Vol XLII, No 7, 1959, pp 2334-2342.

CSIRO 5470

Sci - Chem
Aug 62

211, 176

The Melting-Point Curves of Nitrogen to 250 ATM
and Nitric Oxide to 75 ATM, by K. Clusius,
U. Piesbergen, et al.
GERMAN, per, Helvetica Chimica Acta,
Vol XLII, No 7, 1959, pp 2356-2364.
NASA TT F-8596

Sci - Chem

May 64

U.S. GOVERNMENT ONLY

258,678

On the Synthesis of N-t-butyloxycarbonyl-
amino Acids, by R. Schwyzer.
GERMAN, per, Helv Chim Acta, Vol 42, No 7,
1959, pp 2622-2624.
GOVERNMENT USE ONLY
NASA TT F-12,183

Sci-Chem
Aug 69

388,719

Gas Chromatographic Characterization of Organic
Compounds. Part 3: Calculation of Retention Indices
of Aliphatic, Alicyclic, and Aromatic Compounds,
by A. Wehrli, E. Kovats, 29 pp.
GERMAN, per, Helvetica Chimica Acta, Vol 42, No 7,
No 292, 1959, pp 2709-2736.
ARM/RSIC-Tr-976-70

Sci/Chem
Jul 70

Neukom, H., Deuel, H. and others.
 CHROMATOGRAPHIC FRACTIONATION OF POLY-
 SACCHARIDES WITH CELLULOSE ANION EX-
 CHANGERS (Chromatographische Fraktionierung von
 Polysacchariden an Cellulose-Anionenaustauschern)
 tr. by D. A. Sinclair. 1960, 14p. 27 refs. Technical
 trans. 910.
 Order from NRCC \$1.00 NRCC C-3490
 Trans. of Helv[etice] Chim[ica] Acta (Switzerland)
 1960, v. 43, no. 1, p. 64-71.

NIH 8-20-63

151485

(Chemistry--Organic, TT, v. 5, no. 8)

61-12618

1. Saccharide polymers--
Fractionation
2. Chromatographic analysis--
Applications
3. Cellulose--Exchange
reactions
4. Title: DEAE
- I. Neukom, H.
- II. Deuel, H.
- III. NRCC TT-910
- IV. NRCC C-3490
- V. National Research Council
of Canada

Office of Technical Services

The Structure of a Vitamin K₂-Compound From Tubercle
Vacilli and the Synthesis of Higher Isoprenologues
of the Vitamin K₂ Series, by R. Holi, R. Ruagg,
U. Gloor, 13 pp.

GERMAN, per, Helvetica Chimica Acta, Vol XLIII,
No 1, 1960, pp 433-438.

NIH 3-4-61

Sci - Med
May 61

150,580

The Quantitative Conversion of Chemical to
Mechanical Energy by Homogeneous Contractable
Systems, by W. Kuh, G. Ebner, et al, 2 3 pp.

GERMAN, per, Helv Chim Acta, Vol XXXIII,
No 2, 1960, pp 502-517.

SIA 60-18164

196, 864

Sci
May 62

Vol 4, No 10

Biosynthesis of Aldosterone: Isolation of A C_{20} -Steroid
Lactone From Hog Adrenals, by R. Neher, A. Wettstein,
12 pp.

GERMAN, per, Helvet Chim Acta, Vol XLIII, 1960,
pp 623-628.

SLA 60-16640

Sci

190,031

Mar 62

Vol IV, No 6

Spectropolarimetry, II Sensitivity of Photoelectric
Polarimeters, by Th. Burer and Hs. H. Gunthard,
GERMAN, par. Helvetica Chim. Acta, Vol 43, 1960,
pp 810-824.
NLL Ref: 5828.4F (13470)

Sci/Chem
May 70

Peptide Structure Elucidation by the Use of
Phenyl Isothiocyanate - [³⁵S], by Emil Chovancik,
9 pp.

~~Helvetic~~, Helvetic Chimica Acta, Vol XLIII,
No 118, 1960, pp 895-900.

OSIR 117 No 250

Sci - Chem

117

224.326

Separation and Concentration Course of the Oxygen
Isotopes O^{16} , O^{17} , and O^{18} in the Distillation of
Water in a Precision Distillation Apparatus, by
M. Thurkauf, A. Marten, Werner Kuhn, 49 pp.

GERMAN, per, Helv Chim Acta, Vol XLIII, 1960,
pp 889-1004.

AEC Tr-4297

Sci - Chem
21 Feb 61

140,922

Geochemistry. VII. Treatment Plant for Tritium in
Natural Water, by E. Schumacher, 32 pp.

GERMAN, per, Helv Chim Acta, Vol XLIII, 1960,
pp 1019-1032.

AEC MP-Tr-607

Sci
Sep 61

166,196

CEA-A-1406
Reverse Translation - French
9218383

Signer, R. and Studer, M.
THE SEPARATION OF A MIXTURE OF CRUDE
THEVETIN INTO ITS COMPONENTS, CERBEROSIDE
AND THEVETIN A, BY MEANS OF A NEW APPARA-
TUS FOR MULTISTAGE PARTITION BETWEEN TWO
LIQUID PHASES. [1963] Sp.
Order from ATS \$7.50

ATS-10Q68G

Trans. of Helvetic Chemical Acta (Switzerland)
1960, v. 43, p. 1427-1431.

DESCRIPTORS: *Drugs, Laboratory equipment,
*Material separation, Liquids.

(Chemistry, TT, v. 10, no. 2)

63-17322

1. Title: Cerberoside
2. Title: Thevetin
- I. Signer, R.
- II. Studer, M.
- III. ATS-10Q68G
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Ruegg, R., Gloor, U. and others.
THE TOTAL SYNTHESIS OF SOLANESOL. Jan 61,
11p.
Order from K-H \$13.75 K-H 10607-d
Trans. of Helvetica Chimica Acta (Switzerland) 1960,
v. 43, no. 214/215, p. 1745-1751.

DESCRIPTORS: *Synthesis, *Alkaloids.

(Chemistry--Organic, TT, v. 8, no. 4)

62-17610

I. Ruegg, R.
II. Gloor, U.
III. K-H-10607-d
IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Pares, J. and Langer, M.
NOTE CONCERNING 5-(O-METHOXYPHENOXY-
METHYL)-2-OXAZOLIDONE OR MEPHENOXALONE.
[1961] 3p. 7 refs.
Order from SLA \$1.10

62-10051

Trans. of Helvetica Chimica Acta (Switzerland) 1960,
v. 43, p. 1862-1863.

DESCRIPTORS: Drugs, *Oxazolidones, Methyl
radicals, Alkoxyl radicals, Phenoxy radicals, Azoles,
Ethyl radicals, Urethanes, Urea.

The synthesis of 5-(o-methoxyphenoxy)methyl-2-oxazo-
lidone (mephenoxalone) by condensation of 3-(o-meth-
oxyphenoxy)-1,2-propanediol with ethyl chlorocar-
bonate, followed by cyclization, is described.
(Author)

(Biological Sciences--Pharmacology, TT, v. 8,
no. 10)

62-10051

I. Pares, J.
II. Langer, M.

Office of Technical Services

Study of Peptide Structures (By Means of the
Phenylisothiocyanate II). On the Usage of the
Absorbtion Microchromatography Regarding Thin
Layers of Phenylthiohydantoins, by E. Cherbuliez.
GERMAN, per, Helvetica Chimica Acta, Vol 43,
No 229, 1960, pp 1871-1873.
NASA TT F-11,425

Sci/Chem
Per 68

Bickel, H., Hall, G. E., Keller-Schierlein, W.,
Prelog, V., and Vischer, E.
METABOLIC PRODUCTS OF ACTINOMYCETES.
REPT. 27. CONSTITUTION OF FERRIOXAMINE B
(Stoffwechselprodukte von Actinomyceten. 27.
Mitteilung. Über die Konstitution von Ferrioxamin B).
12p 21refs.
Order from SLA \$1.60

TT-64-16857

Trans. of Helv[etica] Chim[ica] Acta (Switzerland) 1960,
v. 43 [no. 7] p. 2129-2138.

(Biological Sciences--Biochemistry, TT, v. 12, no. 5)

TT-64-16857

I. Bickel, H.
II. Hall, G. E.
III. Keller-Schierlein, W.
IV. Prelog, V.
V. Vischer, E.
VI. Title: Constitution ...

Office of Technical Services

Thin-Layer Ionophoresis and Thin-Layer
Ionophoresis-Chromatography, by C. G. Honegger,
9 pp.
GERMAN, per, Helvetica Chimica Acta, Vol XLIV,
1961, pp 173-179. 9222681
AEC-SC-T-64-49

Sci-Chem
Jul 64

261,006

Influence of the Light Absorption of Organic Dyes
by External Electric Fields. I. Theoretical
Aspects, by H. Labhart.
GERMAN, per, Helv. Chim. Acta, Vol 44, No 2, 1961,
pp 447-456.
NEW NLI 9-8-66

Sci/SGM
Nov 66

314,266

Influence of the Light Absorption of Organic Dyes
by External Electric Fields. II. Experimental
Investigations on Polyenes, by H. Labhart.
GERMAN, per, Helv. Chim. Acta, Vol 44, No 2,
1961, pp 457-460.
ABW NH 9-12-66

Sci/B&H
Nov 66

314,270

Synthetic Analogues of Hypertension. I. Introduction.
by R. Schwyzer, 9 pp.

GERMAN, per, Helv Chim Acta, Vol XLIV, 1961,
pp 667-674.

NIH 11-35-61

179.342

Sci -- Med

Jan 62

Determination of the Solubility of Iron (III)-
hydroxides With ^{59}Fe . Part 1., by H. Lengweiler.
GERMAN, per, Helvetica Chimica Acta, Vol 44,
No 3, 1961, pp 796-811.
CSIRO/No. 6299

Sci -
Aug 67

335,174

Determination of the Solubility of Iron (III)
Hydroxides with ^{59}Fe (II). The State of Very
Small Amounts of Iron (III) Hydroxide in
Aqueous Solution, by H. Lengweiler.

GERMAN, per, Helv Chim Acta, Vol 44, 1961,
pp 805-811.
CSIRO/9619

July 69

385-154

Kündig, W., Neukom, H., and Deuel, H.
[INVESTIGATIONS] OF [GRAIN] MUCINS. I. CHRO-
MATOGRAPHIC FRACTIONATION OF WATER
SOLUBLE WHEAT FLOUR PENTOSANS WITH
DIETHYL-AMINOETHYL-CELLULOSE. [1962] [7]p.
(refs. omitted).

Order from SLA \$1.10

62-20442

Trans. of Helv[etica] Chim[ica] Acta (Switzerland) 1961,
v. 44, no. 3, p. 823-829.

DESCRIPTORS: Cereals, *Mucin, *Wheat, Gels,
Fractionation, Chromatographic analysis, Cellulose,
*Pentoses, Ethyl radicals, Amines, *Polysaccharides.

The water soluble non-starchy polysaccharides of a
wheat flour (Manitoba 11) have been fractionated on a
DEAE-cellulose column. Five completely separated
fractions were obtained. Fraction I was a pure arabin-
(Chemistry--Organic, TT, v. 10, no. 1) (over)

62-20442

I. Kündig, W.
II. Neukom, H.
III. Deuel, H.
IV. Title: Chromatographic...

Office of Technical Services

Difficulty Soluble Potassium and Sodium Decavanadates,
A New Precipitant for Sodium, by G. Schwarzenbach,
G. Coler, 7 pp.

GERMAN, per; Helvetica Chimica Acta, Vol XLIV,
No 3, 1961, p 659. 9993719

AEC Tr-4819

Sci - Chem
Dec 61

177,419

62-10258

Kundig, W., Neukom, H., and Deuel, H.
INVESTIGATION OF GRAIN MUCINS. II. THE GELL-
ING OF AQUEOUS SOLUTIONS OF WHEAT FLOUR
PENTOSANS BY OXIDIZING AGENTS. [1961] 6p.
(5 figs. omitted) 27 refs.
Order from SLA 51, 10

62-10258

Trans. of Helv[etic] Chim[ica] Acta (Switzerland)
1961, v. 44, no. 4, p. 969-976.

DESCRIPTORS: *Cereals, Wheat, *Gels, Xylose,
*Oxidation, *Chromatographic analysis, Fractionation,
Cellulose.

Aqueous extracts of wheat flour are known to gel
readily in the presence of small amounts of oxidizing
agents. It is shown by chromatographic fractionation
on DEAE-cellulose that the glycoproteins present in
aqueous flour extracts are responsible for the gelation.
The UV-spectra of the glycoproteins show an absorption
(Chemistry-Organic, TT, v. 8, no. 3) (over)

I. Kundig, W.
II. Neukom, H.
III. Deuel, H.
IV. Title: Gelling . . .

Office of Technical Services

Escarfall, J. P. and Simon, W.
THE PROGRAMMED CALCULATION OF TITRATION
CURVES. Pt. 1. of Acid-Base Equilibria. (1961) 9p.
Order from ATS \$10.00

ATS-71N54G

Trans. of Helv[etica] Chim[ica] Acta (Switzerland)
1961, v. 44, p. 977-985.

DESCRIPTORS: *Acid-base equilibrium, *Titration,
Programming.

(Chemistry--Physical, TT, v. 6, no. 11)

61-25653

- I. Escarfall, J. P.
- II. Simon, W.
- III. ATS-71N54G
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.
- V. Title: Acid-Base...

158715

Office of Technical Services

Thermal and Optical Study of the Vapour of
Niobium Oxychloride (NbOCl_3)¹), by M. Gloor,
K. Wieland, 32 pp.
GERMAN, per, Helvetica Chimica Acta, Vol 44,
1961, pp 1098-1120. F911191867
AEC IS Tr-57

327,888

Sci - Nuclear Science
Jun 67

Stamm, O. A., Zollinger, Hch. and others.
THE NATURE OF THE BOND BETWEEN REACTIVE
DYES AND CELLULOSE (Die Bindung Zwischen
Reaktivfarbstoff und Cellulose) tr. by H. A. G.
Nathan. 1962, 5p. 13 refs. NRCC Technical trans.
1023.

Order from NRCC \$0.50

NRCC C-3976

Trans. of Helvetica Chimica Acta (Switzerland) 1961,
v. 44, no. 4, p. 1123-1125.

DESCRIPTORS: Textiles, *Cellulose, *Dyes, Chemical
bonds, Deterioration, *Microorganisms, Glucose,
Hydrolysis.

(Materials--Textiles, TT, v. 8, no. 8)

62-22905

- I. Stamm, O. A.
- II. Zollinger, H.
- III. NRCC TT-1023
- IV. NRCC C-3976
- V. National Research Council
of Canada

Office of Technical Services

Bernauer, Klaus and Fallab, S.
PHthalOCYANINE IN AQUEOUS SOLUTION, [PT.] I.
[1962] 11p. 17 refs.
Order from SLA \$1.60

62-18725

Trans. of Helvetica Chimica Acta (Switzerland) 1961,
v. 44, no. 3, p. 1287-1292.

DESCRIPTORS: *Complex compounds, *Phthalocyanines,
*Sulfonates, Zinc compounds, Cobalt compounds,
Copper compounds, Spectrographic analysis.

The behavior of metal free phthalocyanine-tetrasul-
fonate and some metal derivatives in aqueous solution
has been investigated. It was found that most of these
compounds dimerize in diluted aqueous solution. The
stabilities of these dimers have been determined by
spectrophotometric measurements.

(Chemistry--Organic, TT, v. 9, no. 12)

62-18725

I. Bernauer, K.
II. Fallab, S.

Office of Technical Services

Radiation Chemistry of Hydrocarbons, 2nd. Communication.
(1.) Benzene-Cyclohexane, by Tino Gaumann, 19 pp.

GAUMANN, per, Helvetica Chimica Acta, Vol XLIV,
1961, pp 1337-1349. 9099881

AEC NP Tr-858

Sci - Chem
May 62

196,779

Proton-Resonance Spectroscopy and Steroid Structure,
the C-19 Methyl Signal as a Function of the Substituents,
by R. Zurcher.

GERMAN, per, Helvetica Chimica Acta, No 171, 1961,
pp 95,1380
CSIRO/No 7103

Sci -
Jul 67

334,513

A Contribution on the Theory of Paper and
Thin-Layer Chromatography, by H. Brenner,
G. Pataki. FOR GOVERNMENT USE ONLY
GERMAN, per, Helvetica Chimica Acta, Vol XLIV,
No 5, 1961, pp 1420-1425. 9696440
DDC RSIC-345

Sci - Phys
Apr 65

278,253

Anliker, R., Beringer, E. and others.
SYNTHESIS OF PHOSPHAMIDON AND ITS DECOM-
POSITION IN PLANTS. Jan 64, 7510 words
Order from LSA \$68.00

Trans. of Helvetica Chimica Acta (Switzerland) 1961,
v. 44, no. 6, p. 1622-1645.

DESCRIPTORS: *Plants (Botany) *Photosynthesis,
Decomposition, Phosphorus compounds, *Plant
pigments

(Biological Sciences--Botany, TT, v. 11, no. 11)

TT-64-12325

- I. Title: Phosphamidon
 - I. Anliker, R.
 - II. Beringer, E.
 - III. Literature Service
Associates, Bound
Brook, N. J.
- 64/31

Office of Technical Services